

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-8. (Cancelled).

9. (Currently Amended) A drive mechanism for a drug delivery device comprising:

an epicyclic gearbox;

~~a housing including a helical thread;~~

a piston rod including a non-circular cross-section and an external helical thread;

~~a dose dial sleeve configured to engage with the helical thread of the housing and configured to rotate relative to the housing; and~~

~~a drive sleeve configured to be disposed between the housing and the piston rod, the drive sleeve being configured to engage with the external helical thread of the piston rod~~

wherein the drive sleeve is configured to be disposed between a housing and the piston rod; and

wherein the dose dial sleeve is configured to engage with a helical thread of the housing and configured to rotate relative to the housing.

10. (Previously Presented) The drive mechanism of claim 9, wherein the dose dial sleeve is configured to be releasibly connected to the drive sleeve via the epicyclic gearbox.

11. (Cancelled).

12. (Currently Amended) An assembly for use in a drug delivery device, comprising:

a drive mechanism including an epicyclic gearbox, a piston rod including a non-circular cross-section and an external helical thread, and a drive sleeve configured to engage with the external helical thread of the piston rod;

a housing including a helical thread; and

~~a piston rod including a non-circular cross-section and an external helical thread;~~

a dose dial sleeve configured to engage with the helical thread of the housing and configured to rotate relative to the housing; ~~[[and]]~~

wherein the ~~[[a]]~~ drive sleeve is configured to be disposed between the housing and the piston rod, ~~the drive sleeve being configured to engage with the external helical thread of the piston rod.~~

13. (Previously Presented) The assembly of claim 12, wherein the dose dial sleeve is configured to be releasibly connected to the drive sleeve via the epicyclic gearbox.

14. (Previously Presented) A drug injection device, comprising a housing, a first portion of the housing being configured to receive a medicinal product to be injected, and a second portion of the housing containing a drive mechanism including an epicyclic gearbox and a drive sleeve configured to engage a piston.

15. (Currently Amended) A drug delivery device, comprising:

a drive mechanism including an epicyclic gearbox, a piston rod including a non-circular cross-section and an external helical thread, a drive sleeve configured to engage with the external helical thread of the piston rod;

a housing including a helical thread, a portion of the housing configured to receive a medicinal product to be delivered; and

~~a piston rod including a non-circular cross-section and an external helical thread;~~

a dose dial sleeve configured to engage with the helical thread of the housing and configured to rotate relative to the housing; [[and]]

wherein the [[a]] drive sleeve is configured to be disposed between the housing and the piston rod, the drive sleeve being configured to engage with the external helical thread of the piston rod.

16. (Previously Presented) The drug delivery device of claim 15, wherein the dose dial sleeve is configured to be releasibly connected to the drive sleeve via the epicyclic gearbox.

17. (Previously Presented) A method of assembling a drug injection device,
comprising:

providing a housing, the housing including a first portion and a second portion,
the first portion being configured to receive a cartridge containing a medicinal product to
be injected; and

providing a drive mechanism including an epicyclic gearbox in the second portion
of the housing; and

providing a dose dial sleeve configured to drivingly engage the epicyclic gearbox.

18. (Currently Amended) A method of assembling a drug delivery device,
comprising:

providing a drive mechanism including an epicyclic gearbox, a piston rod
including a non-circular cross-section and an external helical thread, and a drive sleeve;

providing a housing including a helical thread;

~~providing a piston rod including a non-circular cross-section and an external~~
~~helical thread;~~

providing a dose dial sleeve configured to rotate relative to the housing;

~~providing a drive sleeve;~~

engaging the dose dial sleeve with the helical thread of the housing;

placing the drive sleeve between the housing and the piston rod; and

engaging the drive sleeve with the external helical thread of the piston rod.

19. (Previously Presented) The method of claim 18, further comprising:

releasibly connecting the dose dial sleeve to the drive sleeve via the epicyclic gearbox.

20. (Currently Amended) A method of assembling a ~~pen-type~~ drug injection device, comprising:

providing a ~~pen-type~~ housing having a first portion and a second portion, the first portion of the housing being configured to receive a cartridge containing a medicinal product to be dispensed; [[and]]

providing an assembly including a drive mechanism including an epicyclic gearbox and a piston rod including a non-circular cross-section and an external helical thread in the second portion of the ~~pen-type~~ housing.

21. (Currently Amended) A method of assembling a drug delivery device, comprising:

providing an assembly including a drive mechanism including an epicyclic gearbox, a piston rod including a non-circular cross-section and an external helical thread, and a drive sleeve;

providing a housing including a helical thread;

~~providing a piston rod including a non-circular cross-section and an external helical thread;~~

providing a dose dial sleeve configured to rotate relative to the housing;

~~providing a drive sleeve;~~

engaging the dose dial sleeve with the helical thread of the housing;

placing the drive sleeve between the housing and the piston rod; and
engaging the drive sleeve with the external helical thread of the piston rod.

22. (Previously Presented) The method of claim 21, further comprising:
releasibly connecting the dose dial sleeve to the drive sleeve via the epicyclic
gearbox.

23. (Currently Amended) A method of dispensing a medicinal product,
comprising:

providing a drug delivery device including a drive mechanism including an
epicyclic gearbox and a piston rod including an external helical thread; and

dispensing the medicinal product via the drug delivery device;

wherein the medicinal product includes an active ingredient selected from the
group consisting of insulin, growth hormone, low molecular weight heparin, analogues
of insulin, analogues of growth hormones, analogues of low molecular weight heparin,
derivatives of insulin, derivatives of growth hormones, and derivatives of low molecular
weight heparin.

24. (Currently Amended) The method of claim 23, wherein the ~~drug delivery~~
~~device~~ drive mechanism further ~~comprises:~~ includes a drive sleeve configured to
engage with the external helical thread of the piston rod;

wherein the drug delivery device further includes a housing including a helical
thread; and

~~a piston rod including a non-circular cross-section and an external helical thread;~~
a dose dial sleeve configured to engage with the helical thread of the housing
and configured to rotate relative to the housing; [[and]]

wherein the [[a]] drive sleeve is configured to be disposed between the housing
~~and the piston rod, the drive sleeve being configured to engage with the external helical~~
~~thread of the piston rod; and~~

wherein dispensing the medicinal product further includes selectively rotating the
dose dial sleeve relative to the drive sleeve.

25. (Previously Presented) The method of claim 24, wherein the dose dial sleeve is configured to be releasibly connected to the drive sleeve via the epicyclic gearbox.

26. (Previously Presented) The device of claim 14, wherein the first portion of the housing is configured to receive a cartridge containing a medicinal product to be injected.

27. (Previously Presented) The device of claim 26, further comprising an element configured to dispense a medicinal product and disposed within the housing.

28. (Previously Presented) The device of claim 27, wherein the element configured to dispense a medicinal product is a piston.

29. (Previously Presented) The device of claim 28, wherein the epicyclic gearbox is configured to transmit a torque to the piston to dispense a medicinal product from the drug injection device.

30. (New) The method of claim 23, wherein the piston rod further includes a non-circular cross-section.